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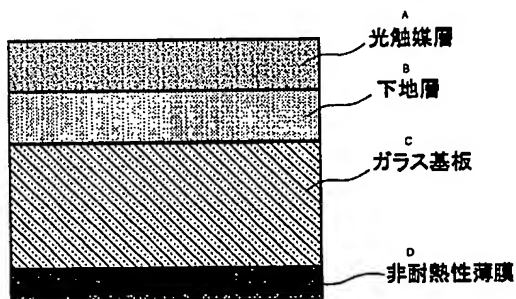
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- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,

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(54) Title: PHOTOCATALYST MEMBER

(54) 発明の名称: 光触媒部材



A...PHOTOCATALYST LAYER
B...FOUNDATION LAYER
C...GLASS SUBSTRATE
D...NON-HEAT-RESISTANT THIN FILM

(57) Abstract: A photocatalyst member is disclosed which is good enough for practical use without a heat treatment. The photocatalyst member comprises a photocatalyst layer formed on the surface of a base with a foundation layer interposed therebetween. The foundation layer mainly contains a crystalline zirconium compound, especially a monoclinic zirconium compound, while the photocatalyst layer is composed of a crystalline phase and mainly contains, for example, a tetragonal titanium oxide. The base contains a material with low heat resistance.

(57) 要約:

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008022

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B01J35/02, 21/06, 37/02, C03C17/34, B32B9/00, C23C28/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B01J21/00-38/74, C03C15/00-23/00, B32B1/00-35/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/40417 A2 (PPG INDUSTRIES OHIO, INC.), 23 May, 2002 (23.05.02), Claims 35 to 37; column 3, lines 16 to 23; column 6, line 32 to column 7, line 3; column 11, lines 1 to 35; column 13, lines 19 to 24; examples 11 to 12, 37 & JP 2004-513864 A & US 2002/0045073 A1	1-17
A	JP 2002-030417 A (Japan Atomic Energy Research Institute), 31 January, 2002 (31.01.02), (Family: none)	1-17
A	JP 10-278165 A (Asahi Glass Co., Ltd.), 20 October, 1998 (20.10.98), (Family: none)	1-17

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
23 August, 2004 (23.08.04)Date of mailing of the international search report
07 September, 2004 (07.09.04)Name and mailing address of the ISA/
Japanese Patent Office

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